**Honors Review for Quantum Mechanics Quiz**

1. Name five differences between the Bohr and quantum mechanical model of the atom.
2. What do we mean when we say that electrons aren’t particles but waves?
3. What are quantum numbers, and what are they used for?
4. Name the four quantum numbers and explain what each of them means.
5. If n=5, what are the allowed values for the other quantum numbers?
6. What are the electron configurations for these elements:

* Vanadium
* Einsteinium

1. Draw the orbital filling diagram for uranium.
2. What is Hund’s rule, and what does it have to do with electron configurations?
3. What is the aufbau principle?